

VIDEO CAMERA WITH MICROPHONE

ABSTRACT OF THE DISCLOSURE

A video camera with a microphone having controllable directivity

characteristics to an object in synchronism with focusing of the video camera to the
5 object. The microphone is an optical microphone (300) comprising a diaphragm (2)
vibrating with sound pressure, a light source (3) for irradiating the diaphragm (2) with
a light beam, a photodetector (5) for receiving part of the light beam reflected from
the diaphragm (2) and outputting a signal corresponding to the vibration of the
diaphragm, a circuit (13) for driving the light source (3) by supplying a predetermined
10 current, and a negative feedback circuit (100) for supplying a part of the signal
outputted from the photodetector (5) to the light source driving circuit (13) as a
negative feedback signal. The directivity characteristics of the optical microphone
(300) are controlled by varying the magnitude of the negative feedback signal with a
zooming signal indicative of the zooming amount of the video camera with respect to
15 the object.

SF 1234655 v1